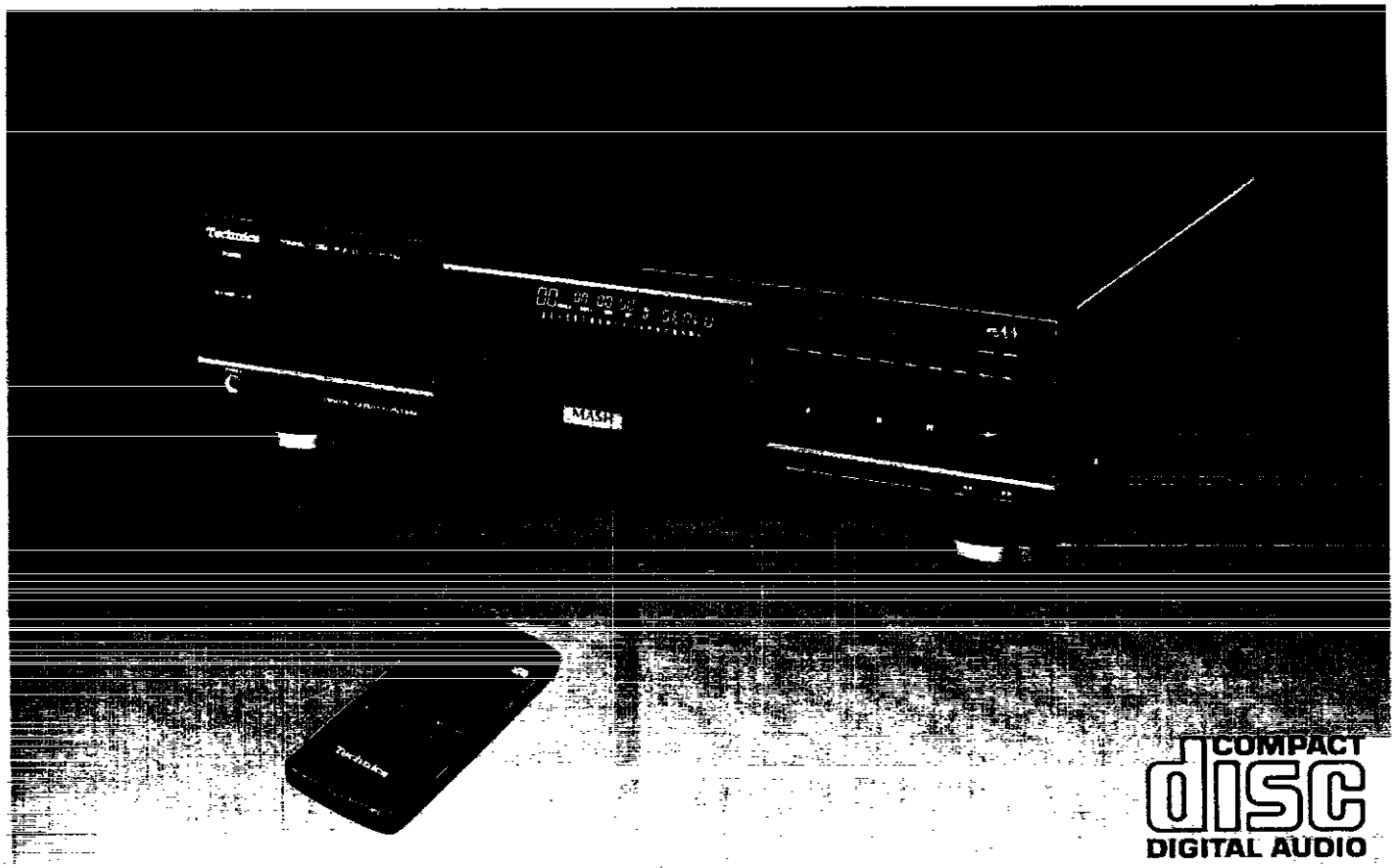
Technics

Compact Disc Player

SL-PS700

OPERATING INSTRUCTIONS



Notes:

- Specifications differ according to the area code.
- The "EB" area code, for example, indicates United Kingdom specifications.
- The "EB" indication is shown on the packing case and serial number tag.

Before operating this unit, please read these instructions completely.

EB GN

Dear Stereo Fan

We want to thank you for selecting this product and to welcome you to the growing family of satisfied Technics product owners around the world.
We feel certain you will get maximum enjoyment from this new addition to your home.
Please read these operating instructions carefully, and be sure to keep them handy for convenient reference.

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For United Kingdom

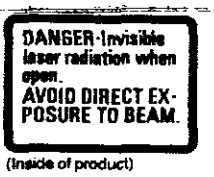
("EB" area code model only)
The "EB" indication is shown on the serial number tag.

Important
THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.
BLUE: NEUTRAL
BROWN: LIVE

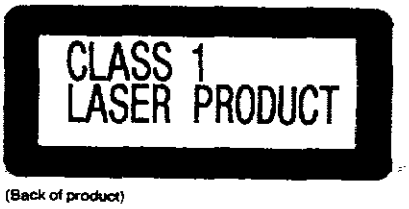
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.
Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.

This apparatus was produced to BS 800.

CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.



(Inside of product)



(Back of product)

Suggestions for Safety

■ Use a standard AC wall outlet

1. **Use from an AC power source of high voltage, such as for an air conditioner, is very dangerous.**
   There is the possibility that a fire might be caused by making such a connection.
2. **A DC power source cannot be used.**
   Be sure to check the power source carefully, especially on a ship or other place where DC is used.

■ Grasp the plug when disconnecting the power supply cord

1. **Wet hands are dangerous.**
   A dangerous electric shock may result if the plug is touched by wet hands.
2. **Never place heavy items on top of the power supply cord, and never force it to bend sharply.**

■ Place the unit where it will be well ventilated

Place this unit at least 10 cm (4") away from wall surfaces, etc.

■ Avoid places such as the following:

In direct sunlight or in other places where the temperature is high.
In places where there is excessive vibration or humidity.
Such conditions might damage the cabinet and/or other component parts and thereby shorten the unit's service life.

■ Be sure to place the unit on a flat, level surface

If the surface is inclined, a malfunction may result.

■ Never attempt to repair or reconstruct this unit

A serious electric shock might occur if this unit is repaired, disassembled or reconstructed by unauthorized persons, or if the internal parts are accidentally touched.

■ Take particular care if children are present

Never permit children to put anything, especially metal, inside this unit. A serious electric shock or malfunction could occur if articles *such as coins, needles, screwdrivers, etc. are inserted through the* ventilation holes, etc. of this unit.

■ If water is spilled on the unit

Be extremely careful if water is spilled on the unit, because a fire or serious electric shock might occur. Immediately disconnect the power cord plug, and consult with your dealer.

■ Avoid spray-type insecticides

Insecticides might cause cracks or "cloudiness" in the cabinet and *plastic parts of this unit. The gas used in such sprays might,* moreover, be ignited suddenly.

■ Never use alcohol or paint thinner

These and similar chemicals should never be used, because they might cause flaking or cloudiness of the cabinet finish.

■ Disconnect the power supply cord if the unit will not be used for a long time

If the unit is left for a long time with the power ON, this will not only shorten its useful operation life, but may also cause other troubles.

■ If trouble occurs

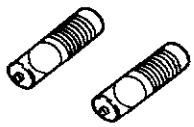
If, during operation, the sound is interrupted or indicators no longer illuminate, or if abnormal odor or smoke is detected, immediately disconnect the power cord plug, and contact your dealer or an Authorized Service Center.

Accessories (Refer to pages 4 and 5.)

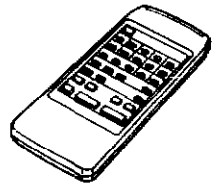
- AC power supply cord 1

- Stereo connection cable 1

- Batteries 2



- Remote control transmitter 1



Note: The configuration of the AC power supply cord differs according to area.

Placement

■ **This unit is a precision instrument. Be sure to place it on a flat surface.**

■ **Avoid places such as the following:**

- Near any equipment or device that generates strong magnetism.
- On any heat-generating equipment or device, or in any place where the temperature is high (35°C or higher).
- Extremely cold places (5°C or below).
- Near a tuner or TV (It may cause noise in the broadcast, or disturbance of the TV picture.)

■ **When carrying or storing the unit, handle it with care so it is not subjected to any strong bumps.**
Always remove the disc before storing the unit for any period of time.

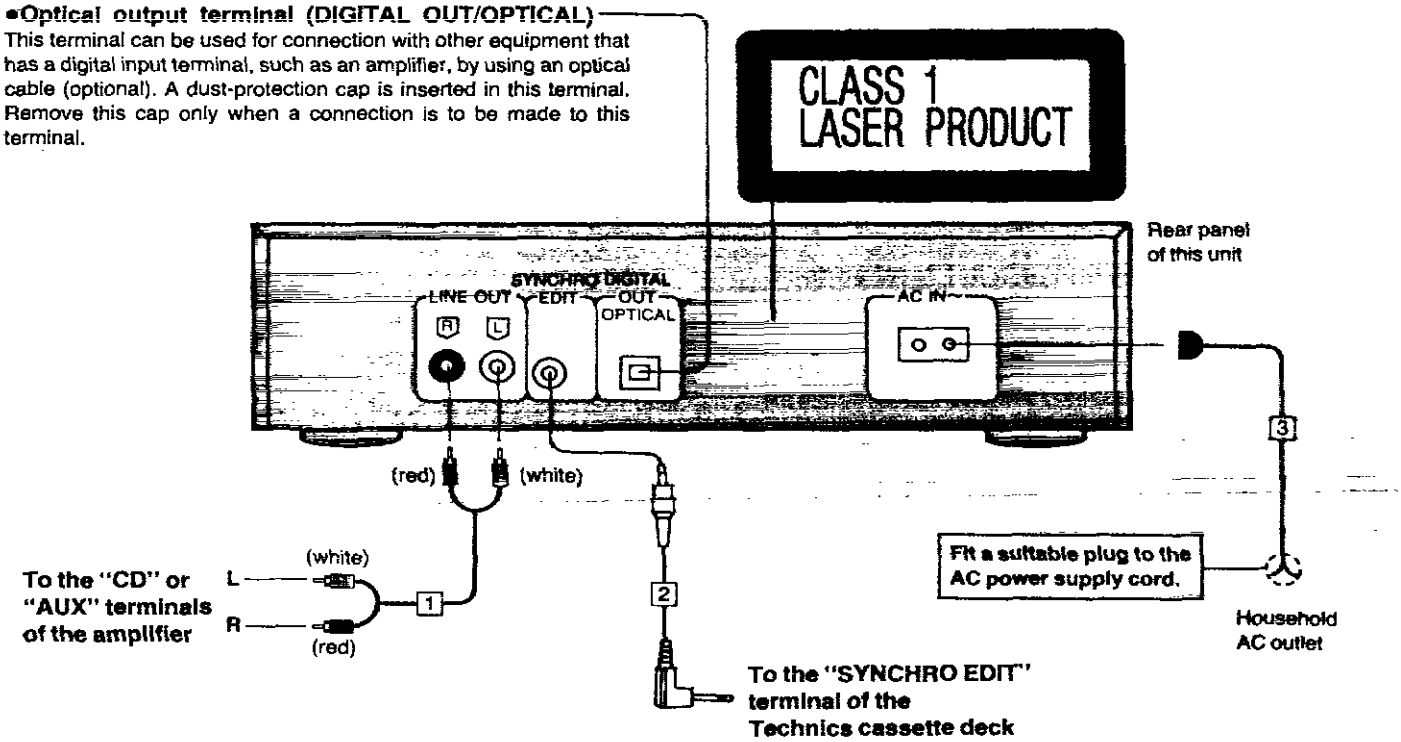
■ **To avoid problems due to vibration.**

- Do not place a book or similar object under this unit.
- Do not route the connection cables (of this or other units) across the operation panel, across the top, or under the unit.

Connections

Turn power off on all components before making connections.

•Optical output terminal (DIGITAL OUT/OPTICAL)
This terminal can be used for connection with other equipment that has a digital input terminal, such as an amplifier, by using an optical cable (optional). A dust-protection cap is inserted in this terminal. Remove this cap only when a connection is to be made to this terminal.



1 Stereo connection cable (included)

Note:
Be sure to connect the stereo connection cable with the amplifier when using the synchro edit function (P.18–P.24) even if the optical cable has been connected.

2 L-type cable (not included)

When this cable is connected to a Technics cassette deck with a synchro edit connector, the deck's synchro recording function will be activated during CD edit recording.

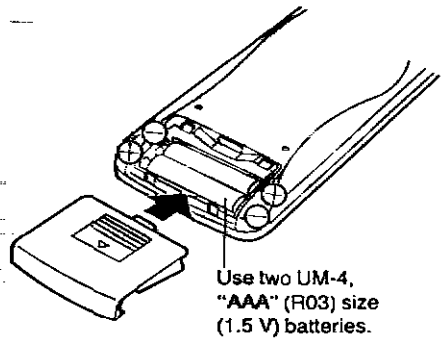
3 AC power supply cord (included)

Note:
The configuration of the AC outlet and AC power supply cord differs according to area.

Remote Control Transmitter

Insertion of remote control transmitter batteries

Battery life is about 1 year.



Use two UM-4, "AAA" (R03) size (1.5 V) batteries.

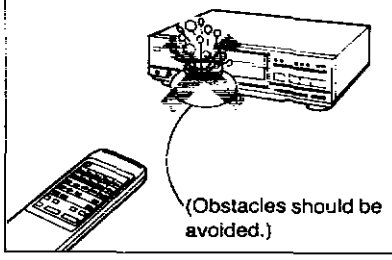
■ Notes concerning use of batteries

- Do not use chargeable batteries (Ni-Cd type).
- Be sure the batteries are inserted so that the positive (+) and negative (−) polarities are correct. Batteries installed with *incorrect polarities may leak and damage the remote control* transmitter.
- Never subject the batteries to excessive heat or flame; do not attempt to disassemble them; and be sure they are not short-circuited.
- If the remote control transmitter is not to be used for a long time, remove the batteries and store them in a cool dark place.
- *Remove old, weak or worn-out batteries promptly and dispose of* them.
- Never mix old and new batteries, nor batteries of different types (carbon or alkaline).

Remote control transmitter operation notes

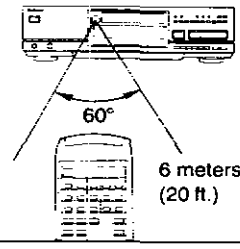
Note that operation may not be correct if direct sunlight or other strong light strikes the remote control signal receptor part of this unit. If there is a problem, place the unit away from the direct sunlight or other strong light source.

Face it toward the remote control *signal receptor.*

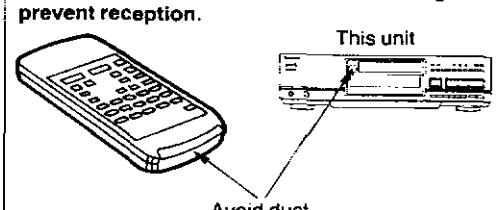


(Obstacles should be avoided.)

Use the remote control transmitter within 6 meters.



Be sure the transmitter part of the remote control transmitter and the receptor part of this unit are free from dust. Excessive dust might prevent reception.

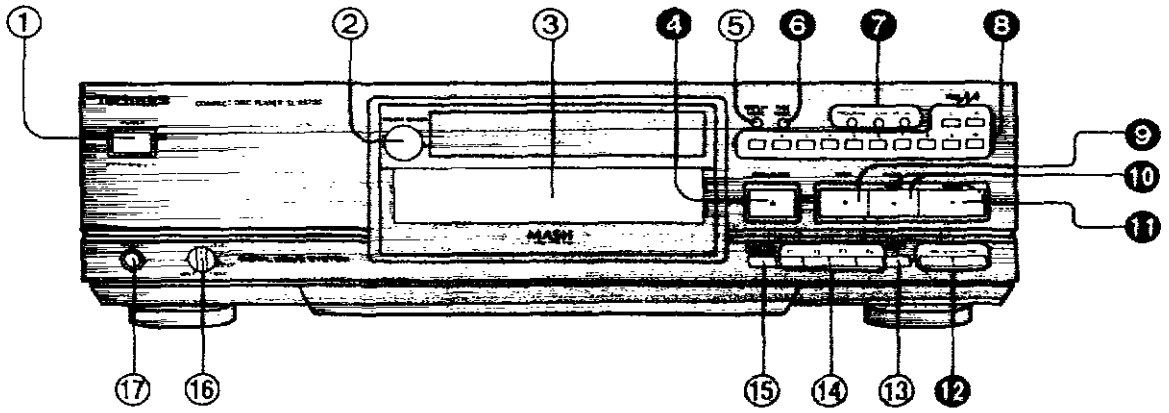


Notes:

- The control panel of the *remote control transmitter may be covered by a clear plastic protective sheet. This sheet may be removed if desired.*
- If this unit is installed in a rack with glass doors, the glass door's thickness or color might make it necessary to use the remote control transmitter a shorter distance from the unit.
- Do not use a remote control transmitter for a TV set, VCR or other component at the same time as this unit's remote control transmitter is being used, because this could result in an operation error.

Location of Controls

The functions indicated by the white numbers (with black background, ❹ etc.) can also be activated using the remote control transmitter.



Control section

① **Power "STANDBY ⏻/ON" switch (POWER, ▮ STANDBY ⏻ ▬ ON)**
This switch switches ON and OFF the secondary circuit power only. The unit is in the "standby" condition when this switch is set to the STANDBY ⏻ position. Regardless of the switch setting, the primary circuit is always "live" as long as the power cord is connected to an electrical outlet.

② **Remote control signal sensor (REMOTE SENSOR)**

③ **Disc holder**

❹ **Disc holder open/close button (▲ OPEN/CLOSE)**

⑤ **Display mode button (DISPLAY MODE)**
Pressing this button enables the unit to delete the indicators on the display in two steps.

❻ **Time mode select button (TIME MODE)**

❼ **Buttons for program function**
- **Program button (PROGRAM)**
  Pressing this button initiates the program play mode. You can then enter specific tracks using the numeric buttons.
- **Clear button (CLEAR)**
  Each pressing this button makes one track cleared from the programmed sequence.
- **Recall button (RECALL)**
  This button can be used to display the contents of the programmed track sequence for confirmation.

❽ **Numeric buttons (0~10)**
Input mode button (>10)
Press this button and then the numeric buttons (0~9) to specify the track number 11 and up.

❾ **Stop button (■ STOP)**
This button can be used to stop disc play, as well as to cancel the various play modes.

❿ **Pause button and indicator (❚❚ PAUSE)**

⓫ **Play button and indicator (► PLAY)**

⓬ **Search buttons (◄◄ SEARCH ►►)**
These buttons are used for fast forward and backward searching during play. In the function manager mode, they are used to indicate the desired function on the display.

⓭ **Direct button (DIRECT, F5)**
In the function manager mode, this is used to operate the functions which have not been set in the F1 to F4 buttons.

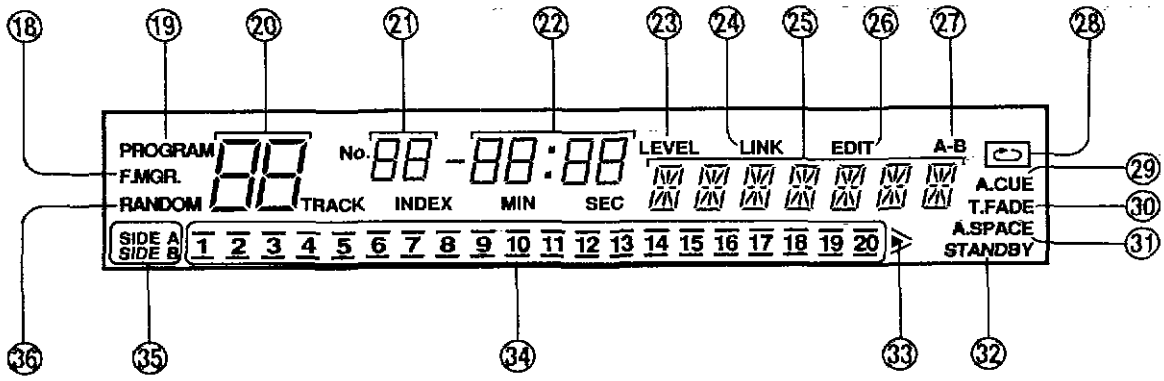
⓮ **Function buttons (F1~F4)**
In the function manager mode, desired functions can be selected and stored in these buttons.

⓯ **Function manager button (FUNCTION MANAGER)**

⓰ **Headphones volume control (LEVEL)**

> Avoid listening to music at high volume levels for extended periods of time.

⓱ **Headphones jack (PHONES)**



Indicators section

⑱ **Function manager indicator (F.MGR.)**
This lights in the function manager mode.

⑲ **Program indicator (PROGRAM)**

⑳ **Track number display (TRACK)**

㉑ **Index/program number display (No., INDEX)**

㉒ **Time display (MIN, SEC)**

㉓ **Level indicator (LEVEL)**
This indicator lights when the output level is attenuated by the remote control transmitter.

㉔ **Link indicator (LINK)**

㉕ **Character display**

㉖ **Compact disc edit indicator (EDIT)**

㉗ **A–B repeat indicator (A–B)**

㉘ **Repeat play indicator (⟲)**

㉙ **Auto cue indicator (A. CUE)**

㉚ **Time fade indicator (T.FADE)**

㉛ **Auto space indicator (A.SPACE)**
This lights when an unrecorded blank lasting about 4 seconds is inserted between tracks during CD edit recording.

㉜ **Standby indicator (STANDBY)**
This indicator lights when the display mode button is pressed twice in the stop mode.

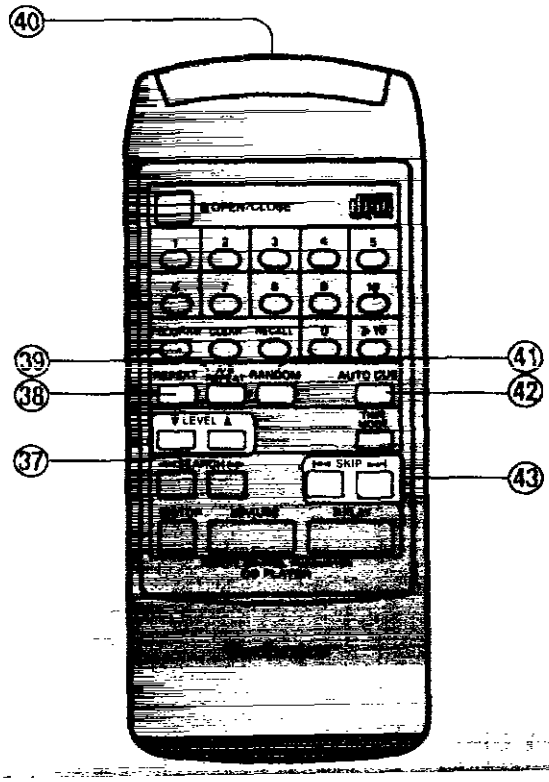
㉝ **"Over" mark (▶)**
This indicator lights if the total number of tracks on the disc is 21 or more.

㉞ **Track number indicator (1–20)**

㉟ **Tape side indicator (SIDE A, SIDE B)**

㊱ **Random play indicator (RANDOM)**

Location of Controls (continued)



Unnumbered buttons on the remote control transmitter function identically to their corresponding parts on the unit.

Remote control transmitter

㊲ Level buttons (▼ LEVEL ▲)
These buttons can be used to control output level (from 0 dB to −12 dB).

㊳ Repeat button (REPEAT)
Pressing this button enables all the tracks or programmed tracks to be played repeatedly.

㊴ A–B repeat button (A–B REPEAT)
Pressing this button enables the programs in the selected range to be played repeatedly.

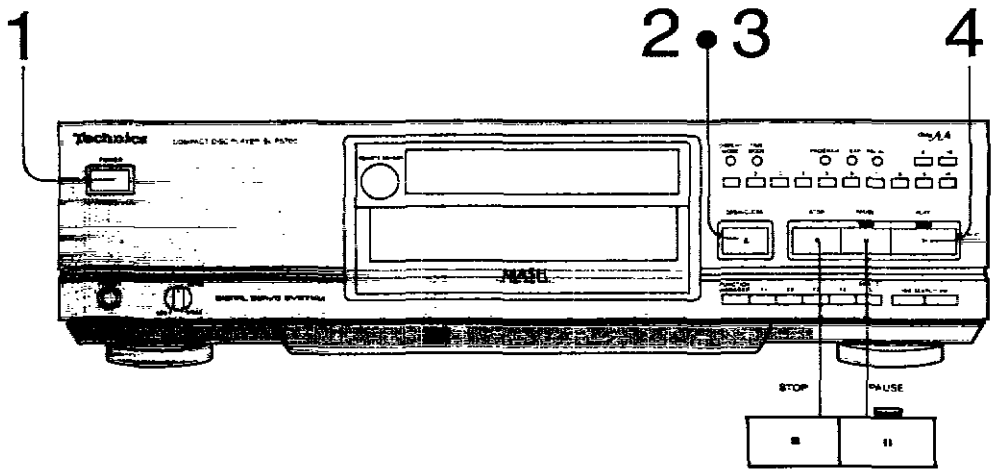
㊵ Remote control signal transmission window

㊶ Random button (RANDOM)
This button can be used to play the tracks on a disc in a random sequence.

㊷ Auto cue button (AUTO CUE)
Pressing this button enables the unit to stop at the beginning of every track and switch to the play standby mode.

㊸ Skip buttons (⏮ SKIP ⏭)
These buttons are used to skip by track in the forward or reverse direction.

Basic Operation



Normal play

Playing an entire disc from the first track to the last.

Basic operations such as open/close, turning the power ON and STANDBY ⏻ are the same for the other play modes as well.

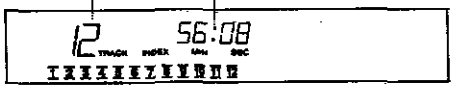
1 Switch ON the power.

Auto-start function
- If a disc has already been loaded into the disc holder, play will begin right away when the power is turned ON. This is for timer play.

2 Press the open/close button to open the disc holder and insert a disc.
- The label must face upward.

3 Press the open/close button again to close the disc holder.

Total number of tracks Total playing time



Do not stick your finger through the hole in the middle of the disc holder. (It could get caught when the holder closes.)

4 Press the play button.
Play indicator illuminates and disc play begins from the first track on the disc.

Index number
(For discs without index numbers, " 1 " will be continuously displayed.)

Track in play Elapsed time

- The bars above and below the number of the track in play flash. They go out when play finishes.

- The unit stops automatically when the last track on the disc finishes playing. (The display returns to the total number of tracks and total playing time indications.)
- Switch power to STANDBY ⏻ when finished.

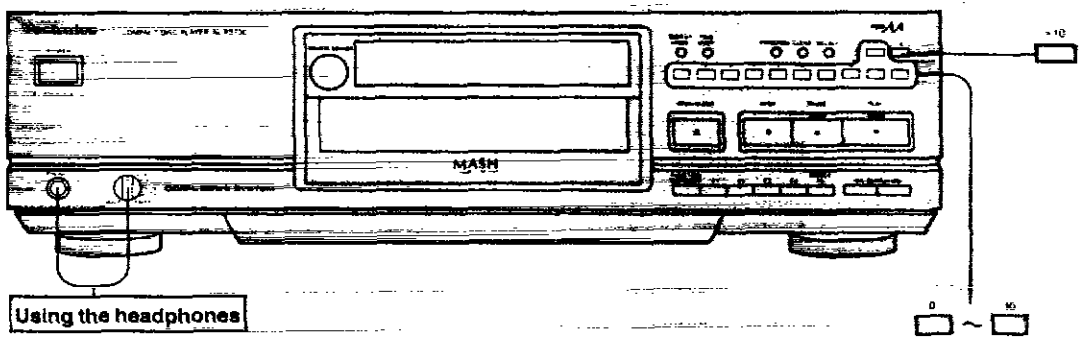
■ To stop disc play, press the stop button.
The unit switches to the stop mode and the total number of tracks and total playing time are displayed.

■ To temporarily stop disc play, press the pause button.
Pause indicator illuminates.

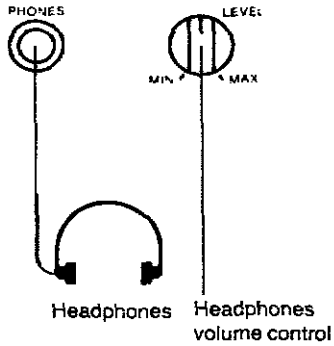
- Press the play button to play again.

Notes:
- Attempting to change discs while the disc holder is in the process of opening can scratch or damage your discs.
- Before attempting to use the remote control transmitter to open the disc holder, make sure that there are no obstructions in front of the unit (the closed glass door of an audio rack, etc.).
- The total playing time displayed includes the silent sections between tracks. For this reason, it may differ by a few seconds from the playing time printed in the disc's liner notes.

Basic Operation (continued)



Using the headphones



Note:
Avoid listening to music at high volume levels for extended periods of time.

Direct access play

To listen to a disc from track 3, press the numeric button 3. Play begins directly from track 3.

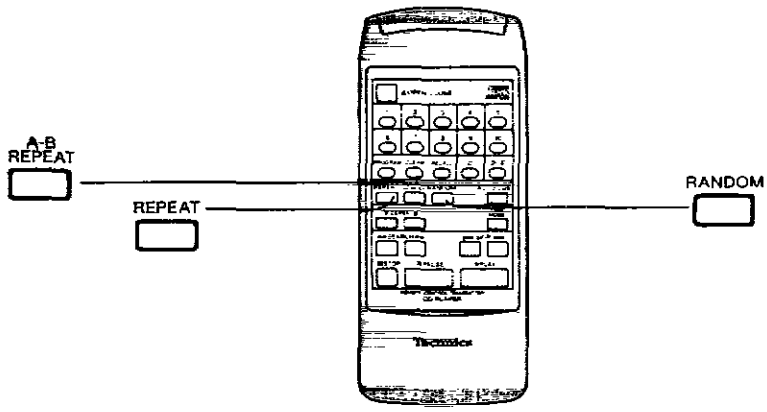
Choosing a specific track

Tracks 1–10: Press the appropriate numeric button 1–10 directly.

Tracks 11 and up: First press 10+, then 1 – 9 to select the "tens" digit, and 0 – 9 to select the "units" digit.
For example, to select the track number such as 25:

10+ ⇨ 2 ⇨ 5

- Playback begins from the track selected and continues from subsequent tracks until the end of the disc is reached.
- The unit stops automatically when the last track on the disc finishes playing.
- During play, you can skip to the specific track directly by using the numeric button.



Repeat play

Operations can also be controlled at the main unit. (Refer to page 16.)

Press the repeat play button.

Repeat play indicator

- Pressing the repeat play button again cancels the repeat play.

A–B repeat play

You can specify the beginning point (A) and the ending point (B) of the section to be repeated and repeat only that section.

① During play, press the A–B repeat button at the point where you want the repeated section to begin.
- A– illuminates.

② *Press the A–B repeat button again at the point where* you want the repeated section to end.
- **A–B** and ⇆ illuminate. A–B repeat play starts.
- Pressing the A–B repeat button again cancels A–B repeat.

■ Cue memory function

If specified only point (A) by pressing the A–B repeat button, that point (A) will be in memory.
During play, if pressing the play button, play starts from the point (A) again.

Note:
A–B repeat function and cue memory function do not work on the program play and random play modes.

Random play

Operations can also be controlled at the main unit. (Refer to page 16.)

All the tracks on the disc are played in a new, randomly selected order. The order is different every time. Listening to tracks in a different order can be a refreshing change of pace.

Press the random play button.

Random indicator

When play begins from track 3
(The bars above and below the number of the track in play flash. They go out when play finishes.)

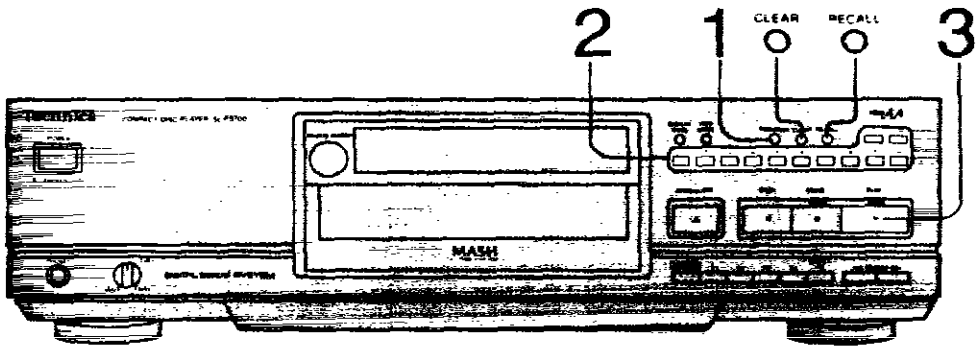
- The unit stops automatically when all tracks on the disc finish playing. (Random play mode will be cancelled.)

■ To cancel random play while a disc is playing, press the random play button again.

When the track in play finishes playing, play continues from subsequent tracks in the normal order until the end of the disc is reached.

Program Play

This function allows you to program up to 32 tracks on the disc in any order you choose.



1 Press the program button.

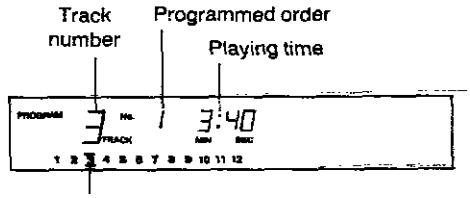
Program indicator illuminates.

- When this button is pressed during play, the track being played will be programmed first.

2 Enter the desired tracks using the numeric buttons.

(Refer to page 10 for details on how to select the track numbers.)

For example, if you press [3] :



The bars above and below the number 3 illuminate, indicating that track has been programmed.

- If the total playing time exceeds 99 minutes 59 seconds or the track number 33 (or higher) has been specified, the display reads "--:--".
- When the 33rd program has been performed, "FULL" appears on the display, indicating that no more tracks can be added to the programmed sequence.
- Track numbers not actually on the disc can not be programmed.

3 Press the play button.

The programmed sequence is played beginning from the first track you entered.

- The unit stops automatically when all the programmed tracks have finished playing.
- Even after play is completed, the programming is still set. The same programmed sequence can be played through by pressing the play button again.
- If the stop button is pressed during program play, play will stop with the programming still set. (If the same button is pressed again, all the programming is canceled.)
- If the program button is pressed again in the stop mode, the program play mode is released. If it is pressed during play, normal play is resumed from the track being played.

■ To recall the programmed sequence, press the recall button.

Each or holding press displays the next track in the sequence.

- When 4 seconds have elapsed after releasing the button, the display returns to the original state.

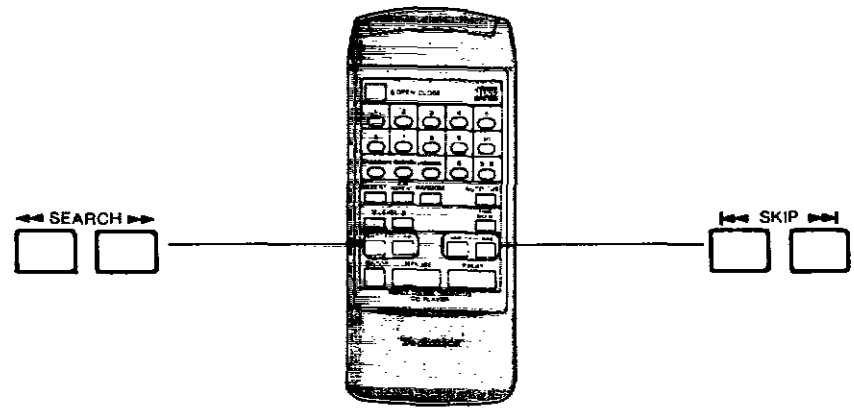
■ To clear programmed tracks, press the clear button in the stop mode.

The last track in the play sequence is cancelled each time you press the clear button.

•To clear a track in the middle of the programmed play sequence:

Press the recall button so that the display shows the number of the track to be cancelled, and then press the clear button. Only the track number displayed is cancelled.

Convenient Functions (1)



Search play

This function allows you to search rapidly forward or backward on the disc for *specific sections*.

Operations can also be controlled at the main unit.

■ To search forward, press the search button (►►).

■ To search backward, press the search button (◄◄).

- Keep the button pressed to increase the search speed.
- Release the button when you reach the desired point on the disc.
- Sound from the disc can be heard as the pickup moves. The output level at this time is decreased by 12 dB (¼) compared with the normal level.
- You can also search when the unit is in the pause mode. When the search button is released, the unit returns to the pause mode.

- **During program play or random play:**
  Only the track being played is searched.

- **During A–B repeat play:**
  Areas beyond the A–B points are searched.

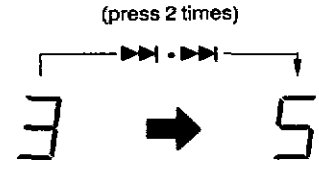
Skip play

Operations can also be controlled at the main unit. (Refer to page *16.*)

This function allows you to skip to the beginnings of tracks preceding or following the track in play and begins play immediately. It is a good idea to keep an eye on the track number display when using this function.

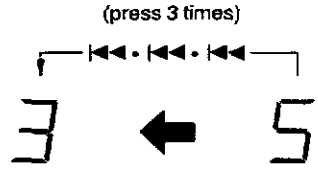
■ To skip forward, press the skip button (►►|).

The unit skips ahead one track each time the button is pressed.
***For example**, to skip from track 3 to track 5:*



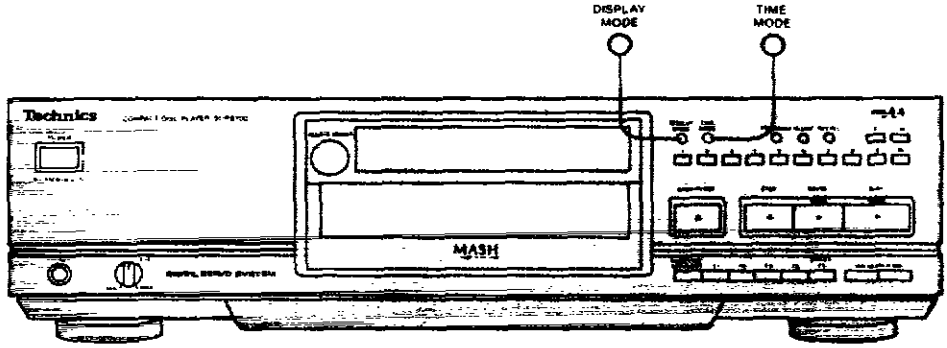
■ To skip backward, press the skip button (|◄◄).

The first time the button is pressed, the unit skips back to the beginning of the track in play. Then it skips back one track for each additional press.
For example, to skip from track 5 to track 3 during play:



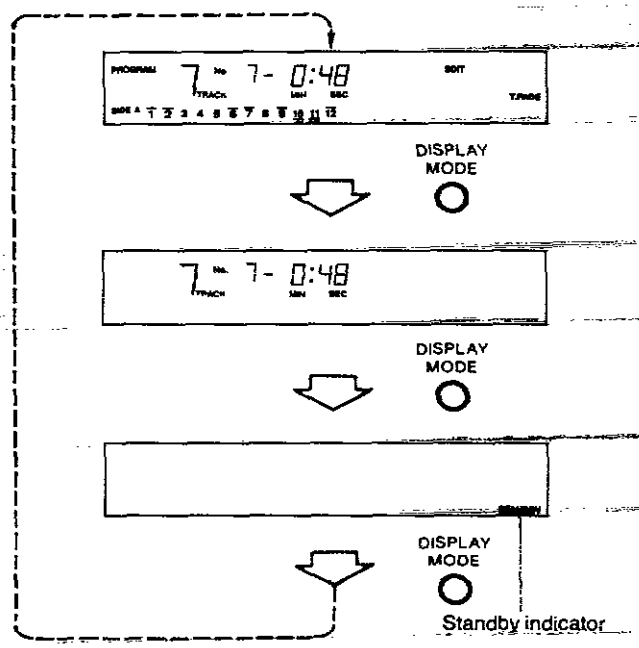
- Tracks can be skipped when the unit is in the stop mode. Specify the track number and press the play button.
- Tracks can be skipped when the unit is in the pause mode. The unit skips to the track selected and remains in the pause mode.
- During program play, the unit skips from one track to another in the programmed sequence.

Convenient Functions (1) (continued)



Display mode

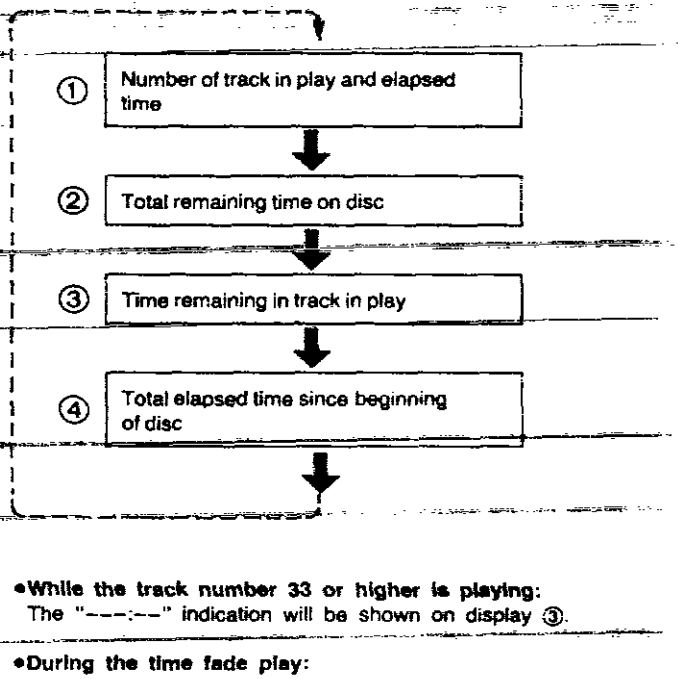
Every time the display mode button is pressed, the display can be turned off in two steps, as shown below.



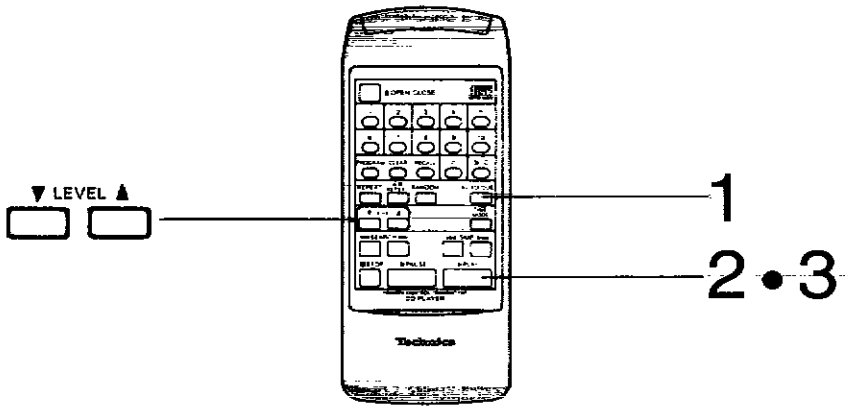
- The standby indicator lights only in the stop mode to indicate that the power is on.
- The normal display is returned four seconds after one of the function buttons is pressed.

Time mode display

Each time the time mode select button is pressed during play or when the unit is in the pause mode, the display changes as follows.


① Number of track in play and elapsed time
② Total remaining time on disc
③ Time remaining in track in play
④ Total elapsed time since beginning of disc

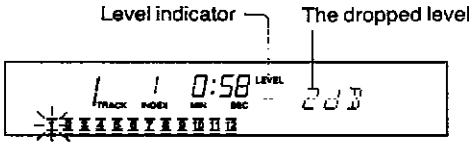
- **While the track number 33 or higher is playing:**
  The "---:--" indication will be shown on display ③.
- **During the time fade play:**
  The remaining time till the fade-out will be additionally displayed next to display ③.
- **During random play:**
  The "---:--" indication will be shown on display ② and the "--:--" on display ④.



Output level control function
(by the remote control transmitter only)

The output level control function enables the unit to control the output level from 0 dB to −12 dB by 2 dB step.

■ To drop the output level, press ▼ button.



■ To raise the output level, press ▲ button.

- The level display returns to the original state after about 2 seconds.
- The unit is designed so that the output level cannot be adjusted in the edit mode to avoid changing the recording level.
- When the power is switched to STANDBY ⏻ and then switched back on again, the level returns to 0 dB.

Auto cue

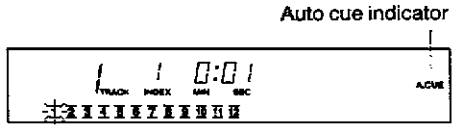
Operations can also be controlled at the main unit. (Refer to page 16.)

The auto cue function allows the unit to wait in the standby condition at the beginning of each track so as to start play right when you are ready.
When each track finishes playing, the unit skips to the beginning of the next track and switches to the play standby mode. This function is especially convenient when used together with programmed play.

1 Press the auto cue button.

2 Press the play button.

The unit switches to the play standby mode.
- Pause Indicator illuminates and play indicator flashes on and off.



3 Press the play button again to start play.

- Pressing the auto cue button again cancels auto cue.

Note:
The auto cue function may not function at the beginning of track properly if a selection begins with a very soft passage or if there is a lot of background noise.

Functions of the Function Manager

Besides the functions of the function buttons marked on the unit, there are 17 other functions which are listed below, and functions No. 1 to No. 5 have already been stored (initial settings) in the function buttons ([F1] to [F5]).

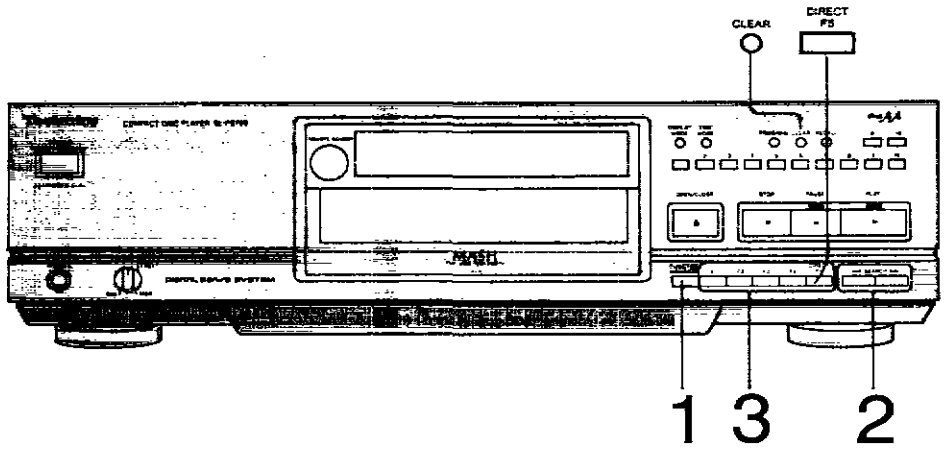
Any of the functions from No. 6 to No. 17 which may be used frequently can be stored in function buttons [F1] to [F5] instead, with the result that you can create your very own original function panel.

Functions for CD edit recording

Function	Display		Reference page
Tape length setting and allocation of tracks to both sides of cassette	F1	= 1 LENGTH	18
Tape editing without wasting tape	F2	= 2 J-TIME	21
Tape side display selection	F3	= 3 SIDE AB	18
Editing of several discs	F4	= 4 LINK	22
Peak level detection for recording level adjustment	F5	= 5 PEAK	20
Fade-out at tape end		= 6 T-FADE	21
Closing up unrecorded sections between programs		= 7 A-SPACE	20
Re-arrangement of program sequence while keeping play time unchanged		= 8 ARRANGE	24

Functions for play operations

Function	Display	Reference page
Fade-out at specified time	= 6 T-FADE	25
Repeat play of all or programmed tracks	= 9 REPEAT	11
Repeat play of tracks in set range only	= 10 A-B REP	11
Play of tracks in random sequence	= 11 RANDOM	11
Track cueing and automatic pause	= 12 A-CUE	15
Fade-in/fade-out at desired position	= 13 FADER	25
Forward skip in track units	= 14 F-SKIP	13
Backward skip in track units	= 15 R-SKIP	13
Forward skip in index units	= 16 F-INDEX	25
Backward skip in index units	= 17 R-INDEX	25



Function programming

1 Press the function manager button.

2 Press the search button to call the desired function.

First to appear on the display are the functions stored in F1 to F5. Then come the other functions in numerical order.

- When the ▶▶ search button is pressed, the other functions are displayed in numerical order after the functions stored in F1 to F5.
- When the ◀◀ search button is pressed, the functions are displayed from function No. 17.

3 Press the function button.

The functions displayed at step 2 above are stored.

■ Checking what has been stored

1 Press the function manager button.
2 Press one of the search buttons.

■ Returning to the initial settings

Press the function manager button and clear button at the same time. "CLEARED" flashes for about 3 seconds.

- The initial settings in No. 1 to No. 5 are returned. (Refer to page 16.)

Using 17 functions

■ Using the functions stored in F1 to F5

Press the function buttons.

■ Using the functions not stored

1 Press the function manager button.

"PUSH SEARCH" flashes.

2 Press the search button and display the desired function.

3 Press the direct button.

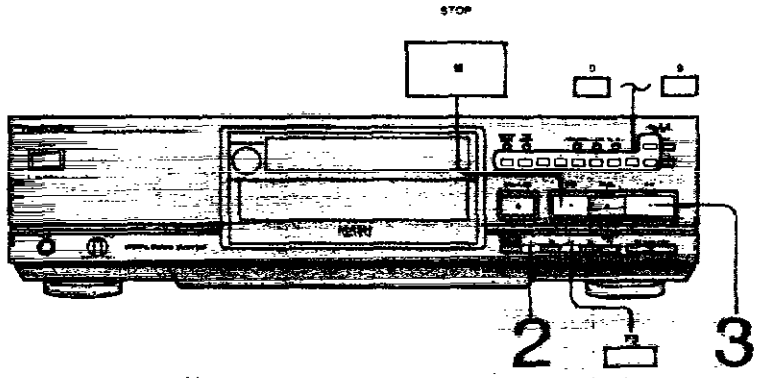
- When the desired function is operated, it is simultaneously stored in F5.

Recording from Compact Discs

CD edit recording:

- This is possible only when a Technics cassette deck with a synchro edit connector has been connected.
- This is not possible for more than 33 tracks or for a track number of 33 or above.
  In the above case, instead of using the editing function, set the player to the play mode and record the tracks.

[Example] Set and operate as follows (▭ denotes the initial setting.)



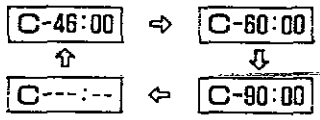
Recording in the CD track sequence (auto edit)

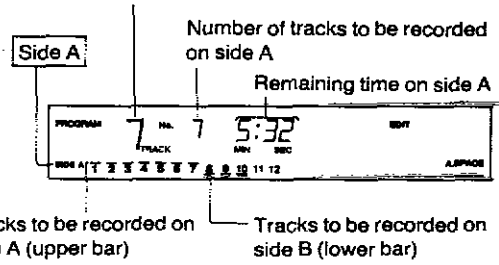
1 Prepare for recording on the cassette deck.

1. Insert the tape cassette into the cassette holder of the deck for the synchro edit recording operation.
2. Select the noise-reduction system and the reverse mode (⇄).
3. Check to be sure that the forward-side indicator (▶) of the deck for recording is illuminated.
4. Set the cassette deck on the recording standby mode. (Refer to the operating instructions for the cassette deck to be used.)
5. Adjust the recording level. (Refer to page 20.)

2 Press [F1] button to select the tape length.

Each time the button is pressed the tape length indicator changes as follows.





Tracks to be recorded on side A (upper bar)

Tracks to be recorded on side B (lower bar)

- To view the time remaining on side B, press the [F3] button and switch over the tape side.

■ To select your desired recording time

Press [F1] button 4 times to select "C---:--". Use the numeric buttons (0~9) to enter the tape's total playing time in minutes and seconds.

For example:

To specify the tape length of 52 minutes 00 seconds:

Press [5] → [2] → [0] → [0].

- If you make a mistake, select "C---:--" once again and enter the correct tape length.

3 Press the play button.

Recording will begin from side A.

- When the tracks programmed for tape side A have finished playing, the unit searches for the beginning of the first track to be recorded on side B and switches to the pause mode. When the auto reverse mechanism of the cassette deck works at the end of side A and the tape switches to side B, recording for side B starts automatically.
- During recording, silent gaps of approximately 4 seconds are inserted between tracks automatically (auto space function).

■ If the cassette deck to be used has no synchro edit terminal

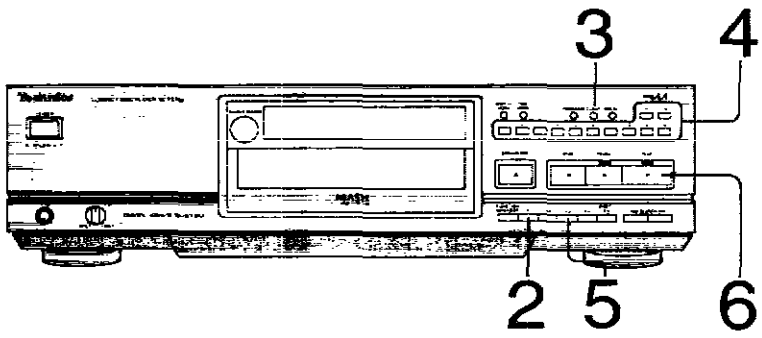
- Press the play button of the cassette deck at the same time as pressing the play button of the CD player to start recording.
- When the recording for side A is finished, the CD player goes into the pause mode. Press the play button of the CD player to start recording for side B as soon as the tape switches to side B.

■ To cancel the edit mode

Press the stop button twice during recording.
Press once in the stop mode.

[Example] Set and operate as follows (▭ denotes the initial setting.)

F1 LENGTH	F2 J-TIME	F3 SIDE AB	F4 LINK	F5 PEAK



Editing desired tracks only (manual)

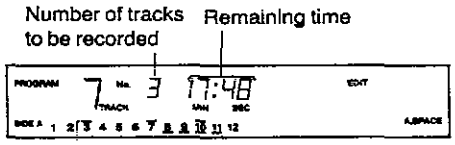
Desired tracks can be programmed one by one while monitoring the time remaining on the tape.

1 Prepare for recording on the cassette deck.
(Refer to page 18.)

2 Press the F1 button to select the tape length.
(Refer to step 2 on page 18 for details.)
The automatic editing functions and the tracks are programmed on the both tape sides A and B.
Then you can perform the clearing, recalling or adding to the programmed tracks as well as in the program play mode.

3 Press the clear button until "0" appears in the track number display.

4 Enter the desired track numbers for side A using the numeric buttons.
For example, if you press 3 · 10 · 7 :



Bars for tracks reserved for side A illuminate

- If the tape is not long enough, a minus sign (−) appears in front of the remaining time and "OVER" is indicated on the display. Press the clear button and make the selection again.

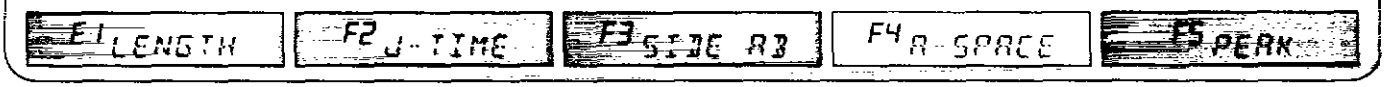
5 Press the F3 button and switch over to the side B display.
Proceed with steps 3 and 4.
- Adjust the recording level. (Refer to page 20.)

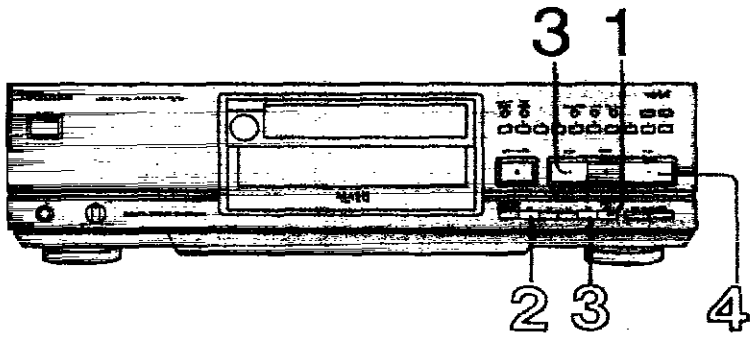
6 Press the play button.
Recording will begin from side A.

- When you want to record programmed tracks, first program tracks in memory using the program play procedure (refer to page 12). Then press the F1 button.

Recording from Compact Discs (continued)

[Example] Set and operate as follows (▭ denotes the initial setting.)

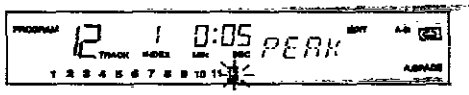




Finding the peak level automatically (auto peak level search)

When the recording level is adjusted on the cassette deck, distortion and noise accompanying the recording can be minimized by proceeding with the adjustment using the peak level on the disc. This unit has a function for detecting the peak level for the entire disc or for programmed tracks.

1 Press [F5] button in the stop mode.
When the peak level is found, the unit repeatedly produces the sound for about 6 seconds around the peak level.



2 Set the cassette deck on the recording stand-by mode and adjust the recording level on the cassette deck.
(Refer to the operating instructions for the cassette deck to be used.)

3 Press the stop button to cancel the peak level search.

Note:
The "peak level search function" on this unit works by having the laser pickup read equal intervals of the disc from the innermost tracks out to the outer edge. The interval with the highest peak level is then chosen.
For this reason, depending on the reading position, the peak level obtained may differ slightly from the actual peak level.
However, as there are many peak points on the disc and the peak level search time is only a small fraction of the total playing time of the disc, the discrepancy is only a small one and should not pose a problem when making recordings.

Closing up unrecorded blanks between tracks (auto space off)

During CD editing, unrecorded blanks between programs each lasting for about 4 seconds are automatically added to be used for cueing. When recording live sessions, for instance, these blanks can be closed up so that the play is made continuous.

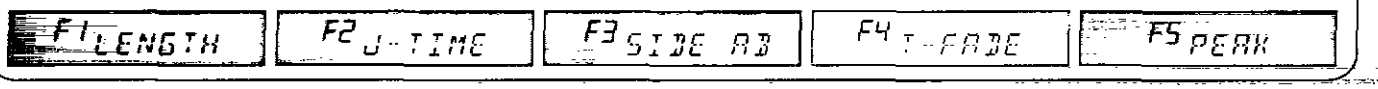
1 Prepare for recording on the cassette deck.
(Refer to page 18.)

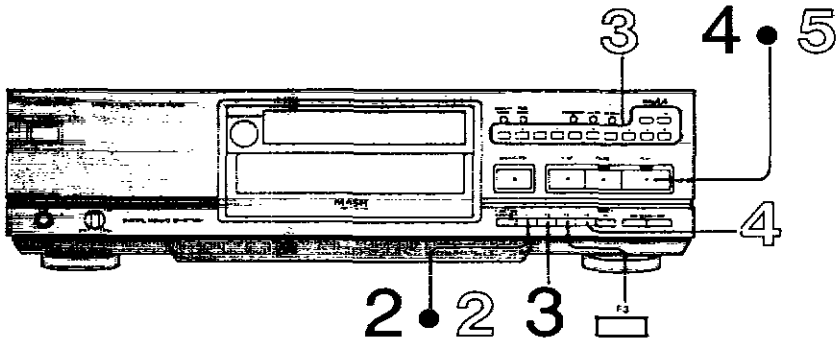
2 Press [F1] button to select the tape length.
(Refer to step 2 on page 18 for details.)

3 Press the [F4] button.
The auto space indicator goes out.
- The unit will automatically calculate the disc edit time again and store it to both sides of the tape.
- Adjust the recording level. (Refer to page 20.)

4 Press the play button.
Recording will begin from side A.

[Example] Set and operate as follows (▭ denotes the initial setting.)





Allotting tracks to the tape without wasting tape space (just time)

The sequence of the tracks is automatically re-arranged so that the unrecorded sections at the ends of the tape are made as short as possible.

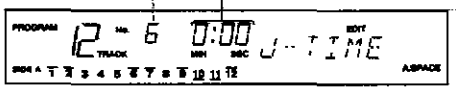
1 Prepare for recording on the cassette deck.
(Refer to page 18.)

2 Press F1 button to select the tape length.
(Refer to step 2 on page 18 for details.)

3 Press F2 button.
The unit begins calculating the best order of tracks on the disc which will leave the least possible amount of blank space on the cassette tape.
(The time to be spent on the calculation is 20 seconds at maximum.)

Number of tracks which can be recorded

Remaining time on side A



•Adjust the recording level. (Refer to page 20.)

4 Press the play button.
Recording will begin from side A.

Closing up the tape-end unrecorded sections (fade end)

This function allows you to add a desired track on the remaining time on each side of the tape with the fade-out performed at the end of the tape.

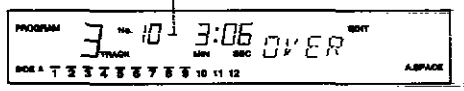
1 Prepare for recording on the cassette deck.
(Refer to page 18.)

2 Press F1 button to select the tape length.
(Refer to step 2 on page 18 for details.)

3 Enter the additional track to be recorded on the remaining time on side A by pressing the numeric buttons.

For example, if you add track 3:

Minus indication



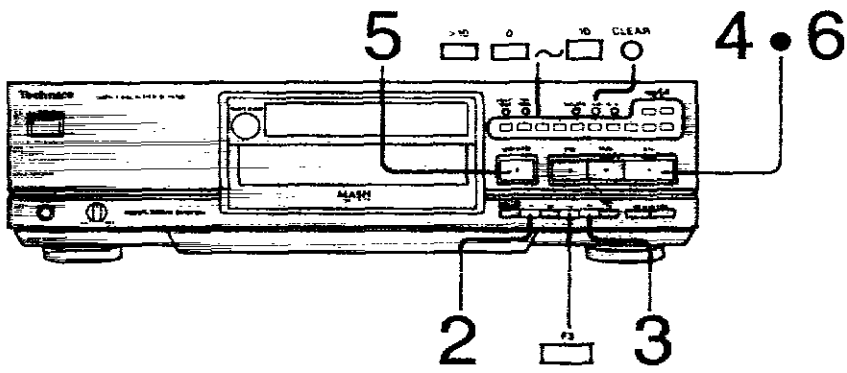
4 Press F4 button.
The time fade indicator lights.
•If you want to add a track on the remaining time on side B, press F3 button and repeat steps 3 and 4.
•Adjust the recording level. (Refer to page 20.)

5 Press the play button.
Recording begins from side A.

The fade-out begins 5 seconds before the end of the tape side A.

Recording from Compact Discs (continued)

[Example] Set and operate as follows (▭ denotes the initial setting.)



Linking up several discs (link function)

This function allows you to record tracks from multiple discs, keeping the total playing time for all discs in memory.

1 Prepare for recording on the cassette deck.
(Refer to page 18.)

2 Press F1 button to select the tape length.
(Refer to step 2 on page 18 for details.)

3 Press F4 button.

Link indicator

4 Press the play button.
Recording will begin from side A.

5 After recording is completed, replace the disc with another.
The disc link function works and the display shows the number of tracks to be recorded on the remaining time.

Number of tracks to be recorded in the space remaining on side B

•Adjust the recording level. (Refer to page 20.)

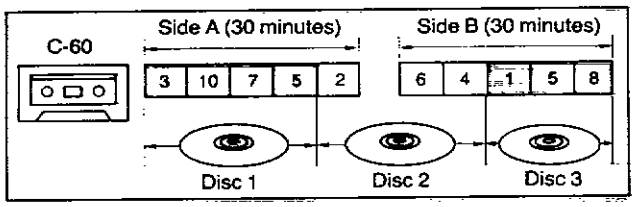
6 Press the play button.

•Repeating the steps 5 and 6 enables more discs to be recorded, as the remaining time of the tape allows.

■ To release the link mode

Press the stop button twice during recording.
Press once in the stop mode.
(The edit mode is also released.)

■ For example, to record programmed tracks from 3 discs on 60 minutes tape.



Recording for disc 1

1 Prepare for recording on the cassette deck.

2 Press [F1] button twice. (" C-60:00 ")

3 Cancel the displayed tracks on both sides.

① CLEAR (to reset the track number display to "0")

② [F3] (to switch to side B)

③ CLEAR (to reset the track number display to "0")

④ [F3] (to switch back to side A)

4 Program the tracks.

([3] ➡ [10] ➡ [7] ➡ [5])

5 Press [F4] button.

6 Press the play button.

Recording for disc 2

1 Replace disc 1 with disc 2.

2 Cancel the displayed tracks on both sides.
(Follow the steps ①~④ of 3 for disc 1.)

3 Program the tracks.

([2] ➡ [F3] ➡ [6] ➡ [4])

4 Press the play button.

Recording for disc 3

1 Replace disc 2 with disc 3.

2 Cancel the displayed tracks on side B.
(Press the clear button repeatedly until all the tracks are cancelled.)

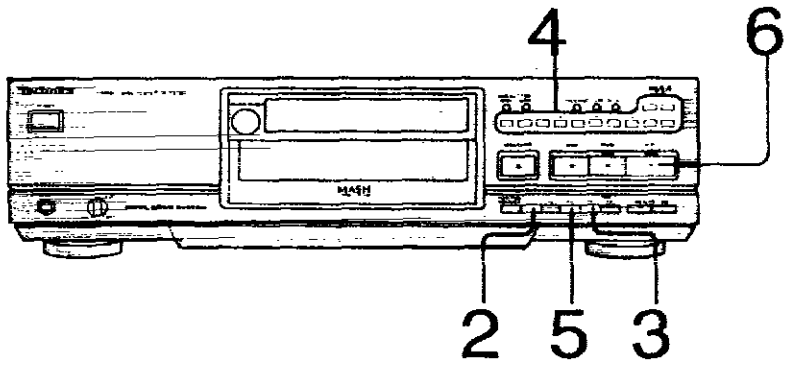
3 Program the tracks. ([1] ➡ [5] ➡ [8])

4 Press the play button.

Note:
The "0" may appear on the track display when the open/close button is pressed and compact discs are exchanged. This means that continued "linking" is not possible because there is no track (on the compact disc) that will fit into the remaining available time for recording at the end of the tape.
If this happens, press the stop button to end the edit-recording.

Recording from Compact Discs (continued)

[Example] Set and operate as follows (▭ denotes the initial setting.)



Re-arranging the sequence of tracks allotted on both sides of tape (arrange)

These steps can be taken during programming and CD editing.

1 Prepare for recording on the cassette deck.
(Refer to page 18.)

2 Press F1 button to select the tape length.
(Refer to step 2 on page 18 for details.)

3 Press the F4 button.
The track numbers programmed for side A flash to indicate that the track sequence can be changed.

4 Press the numeric buttons to assign the track numbers in the desired sequence.
A track number which has been assigned stops flashing.

For example, when ▭ then ▭ buttons are pressed, the track number 3 is to be played first then the track number 1 to be second. The display will be as follows:

- When play is commenced in the above status, the tracks will be played in the following sequence: 3→1→2→4→5.
- When the number of tracks to be assigned is reduced to the last two and one of them is assigned, the other will be set automatically.

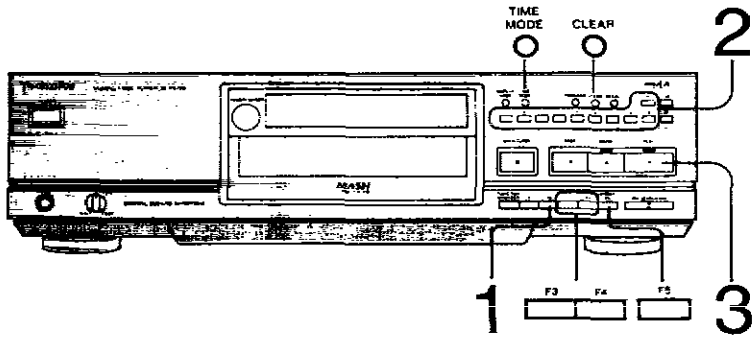
5 Press the F3 button and follow steps 3 and 4 to assign the track numbers on side B.

6 Press the play button.
Recording will begin from side A.

Convenient Functions (2)

[Example] Set and operate as follows (☐ denotes the initial setting.)

F1 LENGTH	F2 T-FADE	F3 R-INDEX	F4 F-INDEX	F5 FADER



Fading out the sound and stopping at the assigned time (time fade)

1 Press the F2 button in the stop or pause mode.
The time fade indicator lights.

2 Set the play time using the numeric buttons.
Any time from 5 seconds to 99 minutes and 59 seconds can be assigned.
For example, to fade-out after exactly 30 minutes, proceed as follows:

3 → 0 → 0 → 0

•If an error is made in assigning the time, press the clear button and proceed with the assignment again.

3 Press the play button.
Fade-out commences 5 seconds before the time and the unit switches to the pause mode.

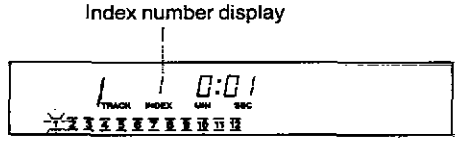
■ To check how much time is left until the fade-out, press the time mode select button three times during play.

Note:
When the disc is scratched or dirty, the fade out function may not be operated properly.

Index skip

This function only works with discs which include index numbers (subdivisions within specific tracks).
Index skip works within the current track. It is a good idea to keep an eye on the index number display while pressing the buttons.

Index number display



■ Press the F4 button to skip forward.

■ Press the F3 button to skip backward.

•Discs with index numbers will have the INDEX mark printed in their liner notes.

Fade in/fade out function

The fade out function enables the unit to end play making the sound gradually smaller.
The fade in function enables the unit to start play making the sound gradually bigger.

■ To activate the fade out play, press the F5 *button during play.*
The play ends with fade out of 5 seconds and the unit goes into the pause mode.

■ To activate the fade in play, press the F5 button in the pause mode.
The play begins with fade in of 5 seconds.

Notes:
•During auto cue mode, activating the fade in/fade out function will cancel the auto cue function.
•When the disc is scratched or dirty, the fade out function may not be operated properly.

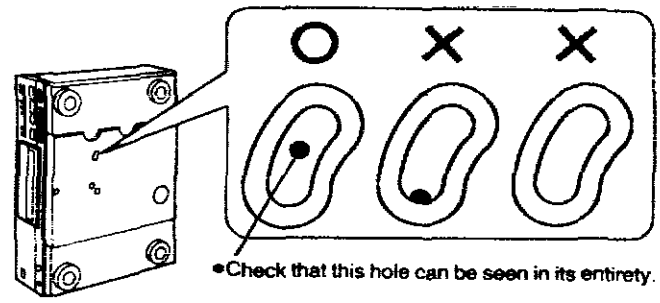
Before Transporting the Unit

To safeguard against damage in transit, be sure to secure the optical pickup by following the procedure below.

1 **Remove the compact disc inside, and set the power switch to STANDBY ⏻ with the disc holder still open.**

2 ***Slowly push in the disk holder by hand.***
- Do not tilt the unit while doing this.
- If the disc holder is not pushed in slowly, the optical pick-up may not be secured properly.

3 **Check that the optical pick-up is secured. (Refer to the figure on the right.)**



- Check that this hole can be seen in its entirety.

About Compact Discs

Noise can be caused if the disc is dirty, scratched, warped, etc. Please note the following points.

Compact Disc identification...

COMPACT disc DIGITAL AUDIO

Use compact discs bearing this mark.

Storage hints

■ Be sure to use the special case.

Avoid storing discs in following places:
- Near heating equipment and places where the temperature is high.
- Places where there is high humidity or excessive dust.
- Places exposed to direct heat from heating equipment, etc.

Be especially careful not to leave discs near the front or rear windows in a vehicle, or inside the dashboard.

Handling cautions

■ On the label of compact discs

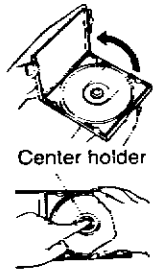
- Do not write with a ballpoint pen, etc. on the label.
- Do not attach any type of paper, label, etc.

Handling notes

Take care not to scratch the disc surface by a fingernail etc when handling the disc

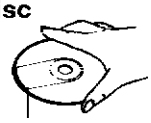
■ Removal of the disc from the case

① Holding the top at both sides.
② Gently press the sides of the top to open.
③ Press the center holder.
④ Lift by the edges (Don't touch the recorded surface.).



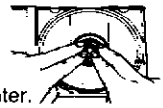
■ How to hold the disc

Hold the disc at its edges. (Don't touch the surface, because fingerprints will remain.)



■ When storing to the case

① Insert with label facing up.
② Press downward at the center.



Maintenance

■ If discs are dirty...

Clean with a soft, damp cloth, and wipe till dry.

Always from the center outward.

Noise can be caused by scratches.

■ If condensed moisture is on the disc surface...

If condensed moisture forms on the disc surface (such as when it is brought from a cold place to a warm place), wipe the moisture away by using a soft, dry cloth.

■ Don't use the following...

- Anti-static cleaners, etc such as used on ordinary phonograph records.
- Benzine, paint thinner, or any other solvents.
- Never dry by using a hair dryer, etc.

Maintenance

To clean this unit, use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth, dipped into a soap-and-water solution or a weak detergent solution. Wring the cloth well before wiping the unit. Wipe once again with a soft, dry cloth.
Never use alcohol, paint thinner, benzine, nor a chemically treated cloth to clean this unit. Such chemicals may damage the finish of your unit.

Technical Specifications

■ Audio

No. of channels	2 (left and right, stereo)
Frequency response	2–20,000 Hz, ±0.3 dB
Output voltage	2 V (at 0 dB)
Dynamic range	98 dB
S/N ratio	114 dB
Harmonic distortion	0.002% (1 kHz, 0 dB)
Total harmonic distortion	0.0028% (1 kHz, 0 dB)
Channel separation	110 dB
Wow and flutter	Below measurable limit
DA converter	MASH • 1 bit
Output impedance	Approx. 1 kΩ
Load impedance	More than 10 kΩ
Headphone output level	15 mW max. 32Ω (adjustable)

■ Pickup

Wavelength	780 nm

■ General

Power consumption	16 W
Power supply	AC 50/60 Hz, 230 V–240 V
Dimensions (W×H×D)	430×130×333 mm
Weight	5.6 kg

Note:
Specifications are subject to change without notice.
Weight and dimensions are approximate.

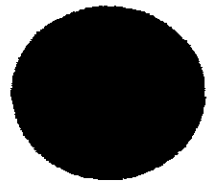
Troubleshooting Guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.
If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your dealer for instructions.

Problem	Probable cause(s)	Suggested remedy
The disc is inserted but the total number of tracks and total playing time are not displayed.	The disc is upside down.	•Check to be sure the label is facing upward.
	The disc is dirty.	•Wipe it with a soft cloth.
	The disc is scratched.	•Replace it with a new disc.
	The disc is warped.	
	The disc is not within specified standards.	•Exchange the disc for another one.
	Moisture has condensed in the unit	•Switch ON the unit and wait about one hour before using the unit.
	Disc of the 8-cm size and 12-cm size are in the tray together.	•Take out a disc of one size or the other.
A certain MUSIC PASSAGE can't be played correctly.	The disc is dirty.	•Wipe it with a soft cloth.
	The disc is scratched.	•Replace it with a new disc.
There is noise from the tuner or disturbance on the TV screen.	Caused by high-frequency signals of this unit.	•Use this unit farther away from the tuner or TV. •If the tuner's or TV's antenna is the indoor type, use an outdoor antenna.
Operation by remote control transmitter is not correct.	No disc is loaded.	•Insert the disc.
	The remote control transmitter batteries are consumed.	•Replace them with new batteries.
	There is an obstruction between the remote control transmitter and this unit.	•Remove the obstruction.
	The batteries have been inserted incorrectly. [The (+) and (−) polarities are reversed.]	•Insert so that the polarities are correct.

About moisture

Moisture may form on the lens in the following cases...
•Immediately after a heater has been turned on.
•In a steamy or very humid room.
•When the unit is suddenly moved from a cold environment to a warm one.
If moisture forms inside this unit, it may not operate properly. To correct this problem, turn on the power and wait about one hour for the moisture to evaporate.



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